

Per Aage Madsen

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

5,184
citations

134610

34
h-index

156644

58
g-index

71
all docs

71
docs citations

71
times ranked

1715
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A new fast transform based Fourier-Legendre-Galerkin model for nonlinear water waves. International Journal for Numerical Methods in Fluids, 2021, 93, 220-248. | 0.9 | 3 |
| 2 | On the statistical properties of surface elevation, velocities and accelerations in multi-directional irregular water waves. Journal of Fluid Mechanics, 2021, 910, . | 1.4 | 8 |
| 3 | Simulation of three-dimensional nonlinear water waves using a pseudospectral volumetric method with an artificial boundary condition. International Journal for Numerical Methods in Fluids, 2021, 93, 1843-1870. | 0.9 | 7 |
| 4 | On the statistical properties of inertia and drag forces in nonlinear multi-directional irregular water waves. Journal of Fluid Mechanics, 2021, 916, . | 1.4 | 6 |
| 5 | Mean and variance of the Eulerian and Lagrangian horizontal velocities induced by nonlinear multi-directional irregular water waves. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, . | 1.0 | 0 |
| 6 | Trough instabilities in Boussinesq formulations for water waves. Journal of Fluid Mechanics, 2020, 889, . | 1.4 | 7 |
| 7 | On the accuracy and applicability of a new implicit Taylor method and the high-order spectral method on steady nonlinear waves. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200436. | 1.0 | 3 |
| 8 | Uniform asymptotic approximations for transient waves due to an initial disturbance. Journal of Geophysical Research: Oceans, 2016, 121, 60-84. | 1.0 | 1 |
| 9 | Third-order theory for multi-directional irregular waves. Journal of Fluid Mechanics, 2012, 698, 304-334. | 1.4 | 48 |
| 10 | Transient waves generated by a moving bottom obstacle: a new near-field solution. Journal of Fluid Mechanics, 2012, 697, 237-272. | 1.4 | 4 |
| 11 | On the evolution and run-up of tsunamis. Journal of Hydrodynamics, 2010, 22, 1-6. | 1.3 | 10 |
| 12 | HIGH-ORDER BOUSSINESQ-TYPE MODELLING OF NONLINEAR WAVE PHENOMENA IN DEEP AND SHALLOW WATER. Series on Quality, Reliability and Engineering Statistics, 2010, , 245-285. | 0.2 | 8 |
| 13 | Analytical solutions for tsunami runup on a plane beach: single waves, N -waves and transient waves. Journal of Fluid Mechanics, 2010, 645, 27-57. | 1.4 | 138 |
| 14 | Tsunami generation, propagation, and run-up with a high-order Boussinesq model. Coastal Engineering, 2009, 56, 747-758. | 1.7 | 92 |
| 15 | Velocity potential formulations of highly accurate Boussinesq-type models. Coastal Engineering, 2009, 56, 467-478. | 1.7 | 43 |
| 16 | A CRITICAL DISCUSSION OF THE SOLITARY WAVE PARADIGM FOR TSUNAMIS. , 2009, , . | | 2 |
| 17 | IMPROVED VELOCITY POTENTIAL FORMULATIONS OF HIGHLY ACCURATE BOUSSINESQ-TYPE MODELS. , 2009, , . | | 0 |
| 18 | Simulation of nonlinear wave run-up with a high-order Boussinesq model. Coastal Engineering, 2008, 55, 139-154. | 1.7 | 71 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Run-up of tsunamis and long waves in terms of surf-similarity. Coastal Engineering, 2008, 55, 209-223. | 1.7 | 90 |
| 20 | Surf Similarity and Solitary Wave Runup. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 195-198. | 0.5 | 30 |
| 21 | On the solitary wave paradigm for tsunamis. Journal of Geophysical Research, 2008, 113, . | 3.3 | 278 |
| 22 | NUMERICAL SIMULATION OF EXTREME EVENTS FROM FOCUSED DIRECTIONALLY SPREAD WAVEFIELDS. , 2007, , . | | 0 |
| 23 | Nodal DG-FEM solution of high-order Boussinesq-type equations. Journal of Engineering Mathematics, 2007, 56, 351-370. | 0.6 | 48 |
| 24 | Analytical and numerical models for tsunami run-up. , 2007, , 209-236. | | 3 |
| 25 | Numerical simulation of lowest-order short-crested wave instabilities. Journal of Fluid Mechanics, 2006, 563, 415. | 1.4 | 53 |
| 26 | Short-crested waves in deep water: a numerical investigation of recent laboratory experiments. Journal of Fluid Mechanics, 2006, 559, 391. | 1.4 | 24 |
| 27 | Third-order theory for bichromatic bi-directional water waves. Journal of Fluid Mechanics, 2006, 557, 369. | 1.4 | 52 |
| 28 | <title>Bichromatic water waves in finite depth</title>. , 2006, 5975, 352. | | 0 |
| 29 | On truncated Taylor series and the position of their spurious zeros. Applied Numerical Mathematics, 2006, 56, 91-104. | 1.2 | 8 |
| 30 | A discussion of artificial compressibility. Coastal Engineering, 2006, 53, 93-98. | 1.7 | 45 |
| 31 | A Boussinesq-type method for fully nonlinear waves interacting with a rapidly varying bathymetry. Coastal Engineering, 2006, 53, 487-504. | 1.7 | 129 |
| 32 | Wave transformation models with exact second-order transfer. European Journal of Mechanics, B/Fluids, 2005, 24, 659-682. | 1.2 | 23 |
| 33 | Numerical simulation of tidal bores and hydraulic jumps. Coastal Engineering, 2005, 52, 409-433. | 1.7 | 44 |
| 34 | Nonlinear wave-structure interactions with a high-order Boussinesq model. Coastal Engineering, 2005, 52, 655-672. | 1.7 | 28 |
| 35 | Potential dominance of oscillating crescent waves in finite width tanks. Physics of Fluids, 2005, 17, 038102. | 1.6 | 1 |
| 36 | COMPUTATION OF NONLINEAR WATER WAVES WITH A HIGH-ORDER BOUSSINESQ MODEL. , 2005, , . | | 0 |

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|----|--|-----|-----------|
| 37 | Linear and non-linear stability analysis for finite difference discretizations of high-order Boussinesq equations. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 45, 751-773. | 0.9 | 15 |
| 38 | Boussinesq evolution equations: numerical efficiency, breaking and amplitude dispersion. <i>Coastal Engineering</i> , 2004, 51, 1117-1142. | 1.7 | 25 |
| 39 | A numerical study of crescent waves. <i>Journal of Fluid Mechanics</i> , 2004, 513, 309-341. | 1.4 | 39 |
| 40 | Boussinesq-type formulations for fully nonlinear and extremely dispersive water waves: derivation and analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 1075-1104. | 1.0 | 173 |
| 41 | Accuracy and convergence of velocity formulations for water waves in the framework of Boussinesq theory. <i>Journal of Fluid Mechanics</i> , 2003, 477, . | 1.4 | 34 |
| 42 | A new Boussinesq method for fully nonlinear waves from shallow to deep water. <i>Journal of Fluid Mechanics</i> , 2002, 462, 1-30. | 1.4 | 290 |
| 43 | On the Accuracy of Boussinesq Evolution Equations. , 2001, , 162. | | 2 |
| 44 | A New Formulation of Deterministic and Stochastic Evolution Equations for Three-Wave Interactions Involving Fully Dispersive Waves. , 1999, , 161. | | 0 |
| 45 | Nearshore Wave Dynamics Simulated by Boussinesq Type Models. , 1999, , 272. | | 2 |
| 46 | A REVIEW OF BOUSSINESQ-TYPE EQUATIONS FOR SURFACE GRAVITY WAVES. <i>Series on Quality, Reliability and Engineering Statistics</i> , 1999, , 1-94. | 0.2 | 67 |
| 47 | A new approach to high-order Boussinesq models. <i>Journal of Fluid Mechanics</i> , 1999, 399, 319-333. | 1.4 | 138 |
| 48 | Current Effects on Nonlinear Interactions of Shallow-Water Waves. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999, 125, 176-186. | 0.5 | 32 |
| 49 | Deterministic and stochastic evolution equations for fully dispersive and weakly nonlinear waves. <i>Coastal Engineering</i> , 1999, 38, 1-24. | 1.7 | 47 |
| 50 | Wave-current interaction based on an enhanced Boussinesq approach. <i>Coastal Engineering</i> , 1998, 33, 11-39. | 1.7 | 69 |
| 51 | Surf zone dynamics simulated by a Boussinesq type model. III. Wave-induced horizontal nearshore circulations. <i>Coastal Engineering</i> , 1998, 33, 155-176. | 1.7 | 69 |
| 52 | Higher-order Boussinesq-type equations for surface gravity waves: derivation and analysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998, 356, 3123-3181. | 1.6 | 256 |
| 53 | Boussinesq Equations with Improved Doppler Shift and Dispersion for Wave/Current Interaction. , 1997, , 1060. | | 2 |
| 54 | Surf zone dynamics simulated by a Boussinesq type model. Part I. Model description and cross-shore motion of regular waves. <i>Coastal Engineering</i> , 1997, 32, 255-287. | 1.7 | 279 |

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|----|---|-----|-----------|
| 55 | Surf zone dynamics simulated by a Boussinesq type model. Part II: surf beat and swash oscillations for wave groups and irregular waves. Coastal Engineering, 1997, 32, 289-319. | 1.7 | 114 |
| 56 | Nonlinear wave dynamics in shallow water. Physica Scripta, 1996, T67, 86-89. | 1.2 | 1 |
| 57 | Further enhancements of Boussinesq-type equations. Coastal Engineering, 1995, 26, 1-14. | 1.7 | 118 |
| 58 | Wave Breaking and Induced Nearshore Circulations. , 1995, , . | | 2 |
| 59 | Wave transformation in the nearshore zone: A review. Coastal Engineering, 1993, 21, 5-39. | 1.7 | 44 |
| 60 | Bound waves and triad interactions in shallow water. Ocean Engineering, 1993, 20, 359-388. | 1.9 | 140 |
| 61 | A Boussinesq model for waves breaking in shallow water. Coastal Engineering, 1993, 20, 185-202. | 1.7 | 302 |
| 62 | Nonlinear Transformation of Irregular Waves in Shallow Water. , 1993, , 460. | | 0 |
| 63 | A new form of the Boussinesq equations with improved linear dispersion characteristics. Part 2. A slowly-varying bathymetry. Coastal Engineering, 1992, 18, 183-204. | 1.7 | 629 |
| 64 | A new form of the Boussinesq equations with improved linear dispersion characteristics. Coastal Engineering, 1991, 15, 371-388. | 1.7 | 523 |
| 65 | An efficient finite-difference approach to the mild-slope equation. Coastal Engineering, 1987, 11, 329-351. | 1.7 | 80 |
| 66 | Performance of a numerical short-wave model. Coastal Engineering, 1984, 8, 73-93. | 1.7 | 35 |
| 67 | A turbulent bore on a beach. Journal of Fluid Mechanics, 1984, 148, 73-96. | 1.4 | 99 |
| 68 | Wave reflection from a vertical permeable wave absorber. Coastal Engineering, 1983, 7, 381-396. | 1.7 | 114 |
| 69 | Turbulent bores and hydraulic jumps. Journal of Fluid Mechanics, 1983, 129, 1. | 1.4 | 128 |
| 70 | The dynamics of wave induced ship motions in shallow water. Ocean Engineering, 1981, 8, 443-479. | 1.9 | 5 |